qtxlight

USER MANUAL

HIGH POWER
LED DMX PAR56 CANS

151.263 / 151.266

PART I GENERAL INFORMATION

1.1 Introduction

Thank you very much for purchasing the 151.263 / 151.266, High Power LED Par Lamp series product. To assure reliable performance it designed to, please read the instructions in this manual thoroughly and carefully before application.

1.2 Safety Information

The following definitions of identifying the severity of the hazards associated with the products are used:

"DANGER" Imminent hazardous situation which, if not avoided, can cause death or serious injury.

"WARNING" Potentially hazardous situation which, if not avoided, can cause death or serious injury.

"CAUTION" Potentially hazardous situation which, if not avoided, may cause minor or moderate injury or property damage. In addition, it uses to alert against unsafe practice.

IGNORING A HAZARD WILL VOID ANY WARRANTY.

DANGER: Ensure that the fixture is disconnected from the main power before performing any type of service or any cleaning procedure.

WARNING: No serviceable parts inside the fixture, do not attempt to open it.

WARNING: The Installation must be performed by qualified professional in accordance with related local codes.

WARNING: Do not attempt to operate the fixture before reading and understand the installation instructions and safety labels.

CAUTION: Do not modify, alter, or attempt to service product

CAUTION: Do not lengthen the mains cable unless authorized by Skytronic

CAUTION: Always ground (earth) the fixture electrically.

CAUTION: Refer all service to a qualified technician.

CAUTION: When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

1.3 Unpacking

The 151.263 / 151.266 has been thoroughly tested and shipped in perfect operating condition. Check the shipping carton carefully for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for damage and be sure all accessories necessary to operate the fixture have arrived intact. In case damage has been found or parts are missing, please contact the sales person for further instructions.

You can find the following components inside the box:

① . A set of 151.263 / 151.266

② . This User Manual

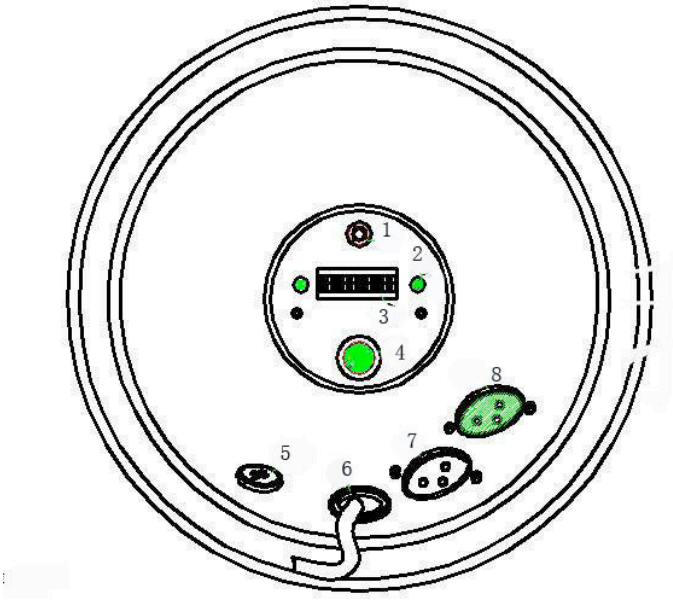
1.4 Specifications:

- Qty of LEDs: 24 PCS (R=1W*8PCS,G=1W*8PCS,B=1W*8PCS)
- Power Supply: 220-240Vac
- Power Consumption: 35W
- Dimension (mm): L340×W200××H200
- Weight: 2.8kg

1.5 Features:

- Low power consumption
- Maintenance free operation
- 100,000 hours rated LED lifespan
- 24 PCS of high power LED generates 16.7 million additive RGB colors
- DMX , AUTO, Sound Activated, Master/Slave, stand-alone
- 8 Auto programs accessed via DMX-controller or stand-alone
- Sound-activated via built-in microphone with adjustable sensitivity
- Brilliant light output

1.6 Panel review



1. sound-active knob
2. indicator
3. dipswitches
4. microphone
5. fuse
6. power input
7. DMX in
8. DMX out

PART II Installation and operational instructions

2.1 Mounting

The fixture can be mounted overhead by a clamp or against a flat surface by the bracket provided.

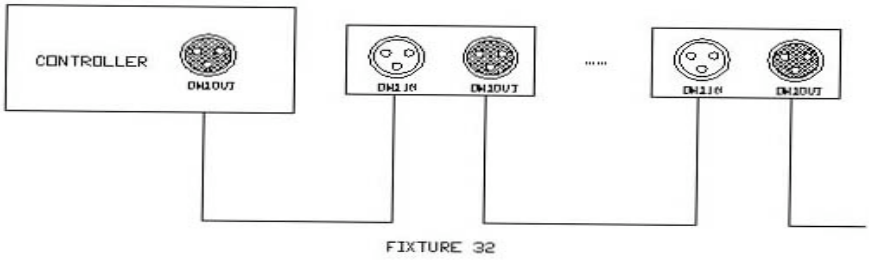
When you mount overhead, you can connect its bracket with the clamp through the center hole.

Verify the structure can hold 10 times the weight of all installed fixtures.

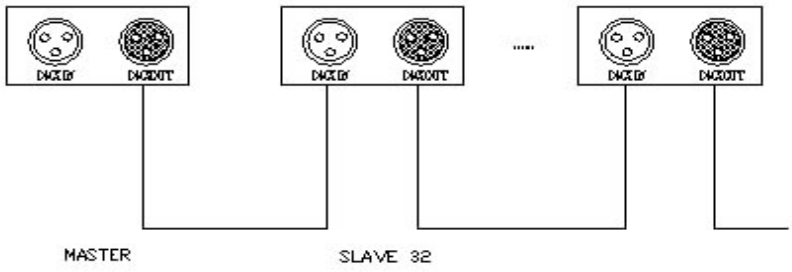
Always use a safety cable or chain as a assistant attachment. The safety cable or chain must hold 10 times the weight of all installed fixtures.

2.2 Multi-fixtures connection as follows:

Connect controller with less than 31 fixtures.



Connect master with less than 31 slaves



2.3 AC power

The fixture's mains lead may require a grounding-type cord cap that fits your power distribution cable or outlet. Consult a qualified electrician if you have any doubts about proper installation.

WARNNING: For protection from dangerous electric shock, the fixture must be grounded (earthed). The AC mains power supply shall have overload and ground-fault protection.

CAUTION: Verify that the feed cables are undamaged and rated for the current requirements of all connected devices before use.

Following the cord cap manufacturer's instructions, connect the yellow and green wire to ground (earth), the brown wire to live, and the blue wire to neutral. The table below details some pin identification schemes.

Wire	Pin	Marking	Screw color
Brown	Live	"L"	Yellow or brass
Blue	Neutral	"N"	Silver
Yellow or green	Ground	"E"	Green

2.4 Understanding DMX

A. About DMX

DMX is the abbreviation of Digital Multiplex. It's a universal protocol used by most audio, lighting and controller manufactures as a communication mean between fixtures and controllers. A DMX controller sends out DMX instructions that travel through the DMX chain as a serial data to the fixtures via XLR cables.

DMX is a kind of "common language" allowing all modules of different fixtures to be linked together and operated by a single controller as long as all modules and the controller are DMX compatible.

B. DMX Cable Requirements:

Your fixture, 151.263 / 151.266 uses 3-pin XLR cable as its connection media..

C. Connection of DMX

Connect the provided DMX XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the fixture (please refer to the figure below). You must chain multiple fixtures together through serial linking, never split your DMX connections unless you are using our splitter/signal amplifier such as SRL-144.

PART II Installation

D. DMX addressing

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the DMX control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by combining various dipswitches. Please refer to **related sections** for further information.

2.5 Operation Instructions

The fixture employs two groups of dipswitches to access its functions. Normally the dipswitches from 1st to 9th are used for encoding DMX address, the 10th dipswitch for alternates among different modes.

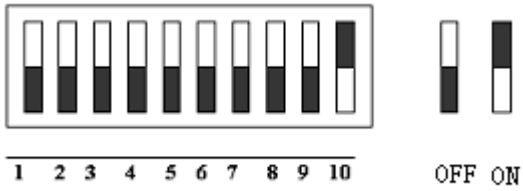
Dipswitch 1 address equals to 1
Dipswitch 2 address equals to 2
Dipswitch 3 address equals to 4
Dipswitch 4 address equals to 8
Dipswitch 5 address equals to 16
Dipswitch 6 address equals to 32
Dipswitch 7 address equals to 64
Dipswitch 8 address equals to 128
Dipswitch 9 address equals to 256
Dipswitch 10 is reserved for selecting DMX or Master/Slave mode.

Functions & DIP Switch：

Work Mode			DIP Switch 1 2 3 4 5 6 7 8 910
Master / Slave		Auto Program 1	0 0 0 * * * 0 0 0 0
	AUTO	Auto Program 2	1 0 0 * * * 0 0 0 0
		Auto Program 3	0 1 0 * * * 0 0 0 0
		Auto Program 4	1 1 0 * * * 0 0 0 0
		Auto Program 5	0 0 1 * * * 0 0 0 0
		Auto Program 6	1 0 1 * * * 0 0 0 0
		Auto Program 7	0 1 1 * * * 0 0 0 0
		Auto Program 8	1 1 1 * * * 0 0 0 0
	Sound Active	Sound Program 1	0 0 0 * * * 1 0 0 0
		Sound Program 2	1 0 0 * * * 1 0 0 0
		Sound Program 3	0 1 0 * * * 1 0 0 0
		Sound Program 4	1 1 0 * * * 1 0 0 0
		Sound Program 5	0 0 1 * * * 1 0 0 0
		Sound Program 6	1 0 1 * * * 1 0 0 0
		Sound Program 7	0 1 1 * * * 1 0 0 0
		Sound Program 8	1 1 1 * * * 1 0 0 0
DMX			XXXXX X XXX 1
Slave Mode			1 1 1 * * * 1 0 0 0

A. DMX mode:

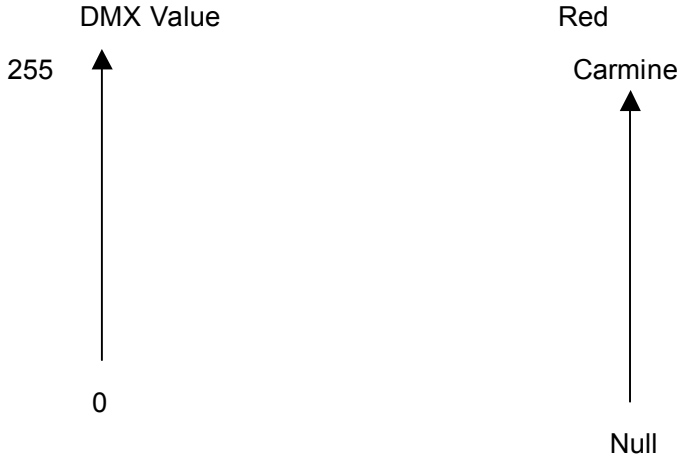
To have the fixture working in DMX mode, please toggle off the dipswitch #10 of the first group as illustrates in below figure:



By combining various dipswitches from #1 to #10, you can designate DMX address ranging from 1 to 512. The DMX channel traits in this working mode detailed as bellow:

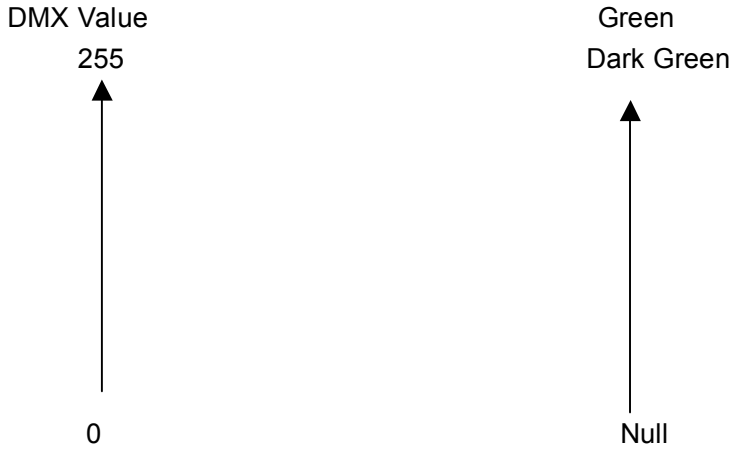
1 **DMX Channel 1 (Red)**

Case: CH4=0-28: CH4=29-255 CH1 no function



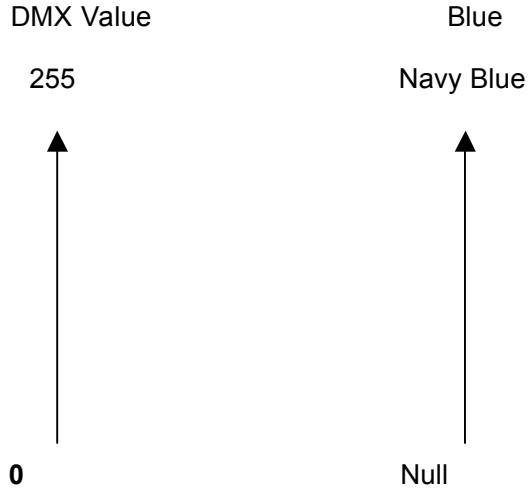
2 **DMX Channel2 (Green)**

Case: CH4=0-28: CH4=29-255 CH2 no function



3 DMX Channel 3 (Blue)

Case: CH4=0-28: CH4=29-255 CH3 no functions



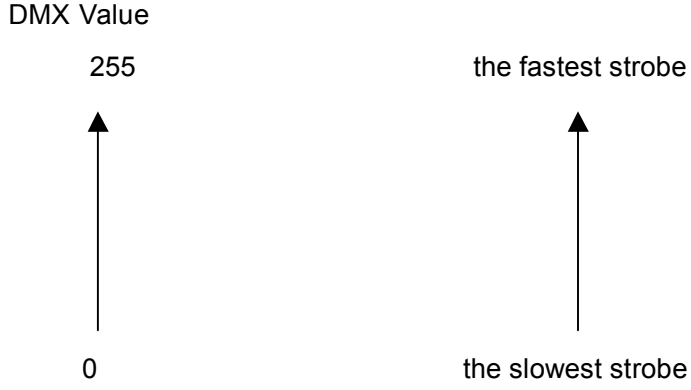
4 DMX Channel 4 RGB Mode Select/ Auto Program Selection

NO.	DMX value	Effect
1	0-28	RGB Control Mode
2	29-56	Auto Program 1
3	57-84	Auto Program 2
4	85-112	Auto Program 3
5	113-140	Auto Program 4
6	141-168	Auto Program 5
7	169-196	Auto Program 6
8	197-224	Auto Program 7
9	225-255	Auto Program 8

When the Channel 4 value is less than 29, the RGB brightness is controlled by DMX Channels 1,2,3.

5) DMX Channel 5 Auto Program Speed. Case: CH4 0-28 CH5 no function

6) DMX Channel 6= 0-10 no strobe. DMX value ⩾11, strobe.



B. M/S mode

To work in M/S mode, you should designate one fixture as master mode and the rest as slave mode. By switching the dipswitch #10 off, you set this fixture to master mode. While by switching the dipswitch #10 on, you set this fixture to slave mode as the way you set it to DMX mode. Via Master/Slave, the master and the slave run synchronically.

C. Select auto programs

To select auto programs, turn the dipswitch #10 and dipswitch#7 off. Auto programs are then selected by the various combining of dipswitches #1, #2 and #3:

DIP1	DIP2	DIP3	Programs
OFF	OFF	OFF	Program 1, red fading
ON	OFF	OFF	Program 2, green fading
OFF	ON	OFF	Program 3, blue fading
ON	ON	OFF	Program 4, changing between red and green
OFF	OFF	ON	Program 5, changing between red and blue
ON	OFF	ON	Program 6, changing between green and blue
OFF	ON	ON	Program 7, changing among red, green , blue, purple, sky-blue (white).
ON	ON	ON	Program 8, changing among red, red and blue, purple and sky-blue

The parameter, fading is specified by the various combining of dipswitch #4, #5 and #6.

DIP4	DIP5	DIP6	FADING
OFF	OFF	OFF	0%
ON	OFF	OFF	14.2%
OFF	ON	OFF	28.4%
ON	ON	OFF	42.6%
OFF	OFF	ON	56.8%
ON	OFF	ON	71%
OFF	ON	ON	85.2%
ON	ON	ON	100%

The running speed of auto programs is adjusted by turning the knob VR2 located at the front panel of the fixture.

D. Sound Active mode

Turn the dipswitch #7 on and #10 off, the fixture will work in sound active mode whose sensitivity is adjustable through the tuning of knob VR1 on the panel.

PART III MAINTENACE AND CLEANING

Please refer to the following points during the normal inspection:

1. Be sure all screws and fasteners are securely tightened at all times.
   Loosened screws may cause unexpected damage or injury.
2. Electric power supply cables must not show any damage or frayed spot.

CAUTION:

Make sure that the power cord of the unit is disconnected from the mains before performing the following operation to avoid shock hazard!

We recommend, if possible, frequent cleaning of the device, which will ensure its long lifespan and bright light output. While performing the cleaning, **please always make sure that the power cord is disconnected from the mains** and use a moist, lint-free cloth. Avoid using any alcohol or solvents, as they are harmful to the fixture.

Troubleshooting

Trouble	Cause	Remedy
Fixtures do not respond.	No power supply	Check the mains power switch and the cables.
	Fuse burned	Disconnect the power and replace the fuse with the same specification. If the fuse is burned again, the problem should be cause by the circuit. Please consult the technician.
The reset is normal. But the fixtures do not responds or act abnormally via controller or Master /Slave.	Data errors	Check the data bus. Ensure the signal input of the first fixture and the output of the controller to be connected.
	Wrong DMX address	Check and unify the address setting. Note: when linked to the DMX controller, no fixtures are set as master.
	The signal port of one lamp has failures.	Pull out the signal output and input of one fixture. Then connect both directly. Handle the rest fixtures alike to check which fixture has problems. If any problem, please connect the technician.

DMX address chart

SWITHC SET 0 = OFF 1 = ON					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0		8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0		10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0		11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	0	1	1	0		12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1	0	1	1	0		13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0		14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1	1	1	1	0		15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	0	1		16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1	0	0	0	1		17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1		18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1		20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
1	0	1	0	1		21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
0	1	1	0	1		22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
1	1	1	0	1		23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	0	1	1		24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1		25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1		26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1		27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1		28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1		29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1		30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1		31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511